



ACO External Drainage

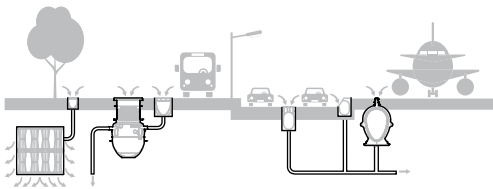
ACO DRAIN *SlabDrain Line*

H100-8/H100-10 - 4" internal width, polymer edge channels

H100K-8/H100SK - 4" internal width, metal edge channels

H200K/H200SK - 8" internal width, metal edge channels

H300K/H300SK - 12" internal width, metal edge channels



ACO DRAIN

ACO Drain is the market leading modular trench drain system and is ideal for commercial applications varying from gas stations to airports.

ACO Drain systems consist of factory manufactured, modular channel units made from either corrosion-resistant, polymer concrete or fiberglass, together with grates from a variety of materials for all loading applications. ACO Drain systems are available in 2", 4", 8" and 12" internal widths, and most systems are available with a built-in slope for up to 130 ft (40 meters) of continuous slope.

The ACO Drain product line is segmented into different product types depending on use:

1. KlassikDrain

KlassikDrain - K100/K200/K300
MiniKlassik - K50
Brickslot

2. PowerDrain

PowerDrain - S100K/S200K/S300K

3. Slab Solutions

SlabDrain
FlowDrain
MembraneDrain



SlabDrain

SlabDrain is a shallow invert trench drain system ideal for applications where site depth restrictions are of concern.

Available with 3 different edge details:

- **H series** - non-metallic polymer concrete edge
- **HK series** - galvanized or stainless steel edge rail
- **HSK series** - ductile iron edge rail

Each system comes with a choice of grates up to a maximum EN 1433 Load Class F (90 ton loading).

Available in 3 different internal widths:

- **4"** - H100-8, H100-10, H100K-8 & H100SK-10
- **8"** - H200K-13 & H200SK-13
- **12"** - H300K-13 & H300SK-13

Choice of grate locking systems:

- **QuickLok** - H100-8, H100-10, H100K-8, H200K-13 & H300K-13
- **DrainLok** - H100K-8/H200K-13 & H300K-13
- **PowerLok** - H100SK-10, H200SK-13 & H300SK-13
- **4-bolts for extra grate security** - H100SK-10, H200SK-13 & H300SK-13

For full product details refer to the ACO Drain Technical Handbook or contact your nearest ACO sales office.

Typical applications

- **Restricted depth applications**
- **Parking decks**
- **Elevated slabs**
- **Animal welfare centers**
- **Boarding kennels**
- **Retro-fit**
- **Threshold applications**

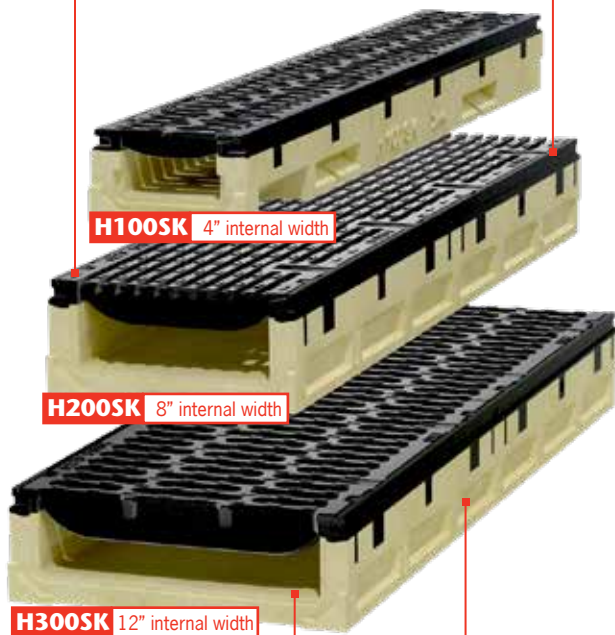
SlabDrain features

HSK Series offers integrally cast-in ductile iron edge rail - Provides maximum strength and protection for channel body.

HSK Series ductile iron grates - Heavy duty ductile iron slotted or longitudinal grates to Load Class F (90 tons).

PowerLok - Patented, boltless locking system that provides quick fitting and removal of grates.

4-Bolt - 4-bolt option for added security.



Profiled side walls - frost keys provide channel body strength and mechanical keying to concrete surround.



Bottom drill-outs Included on all constant depth channels to allow vertical evacuation of system at any point in the run.

Drill-outs sized for:

4" pipes - H100-8/H100-10/H100K-8/H100SK-10;

4" & 6" pipes - H200K-13/H200SK-13;

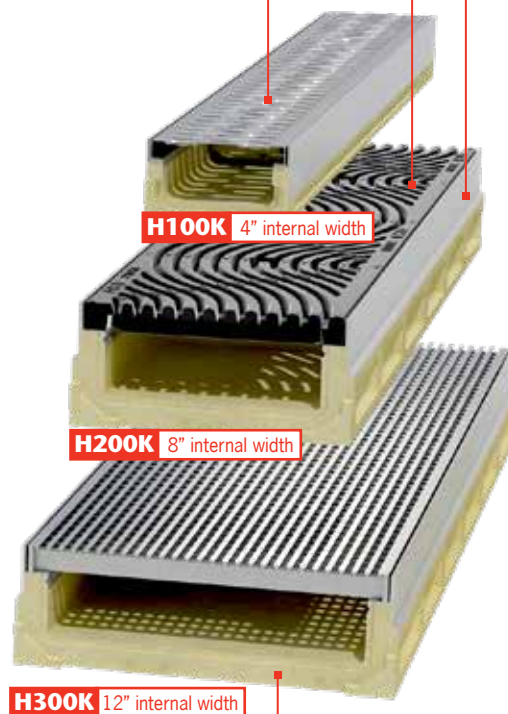
6" & 8" pipes - H300K-13/H300SK-13

DrainLok on HK Series -

Patented, boltless and barless locking system provides quick fitting and removal of grates. Helps reduce installation/maintenance time and cost.

QuickLok on H and HK Series -

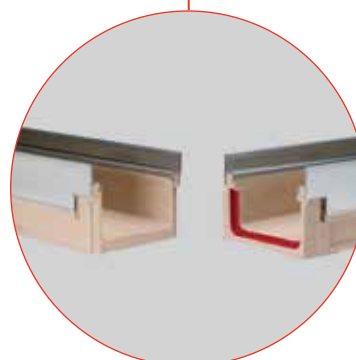
Patented, boltless locking system provides quick fitting and removal of grates. Helps reduce installation/maintenance time and cost.



Interconnecting end profiles -

Allows easy and effective joining of channels.

SF Sealant Groove - A groove is cast into the ends of every channel. This allows for appropriate flexible sealant to be inserted at joints.

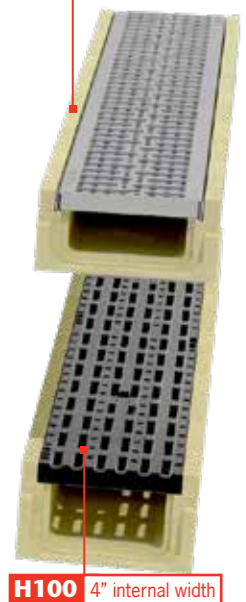


HK Series offers integrally cast-in

galvanized steel edge rail - Provides additional strength and protects channel body from damage. (Stainless steel edge rail also available).

H1 Series polymer concrete edge -

Ideal for situations where metals cannot be used. Product is also used for the base of MembraneDrain.

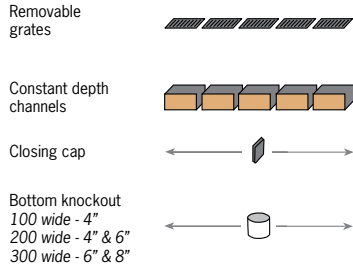


Wide choice of grates - Various materials, styles and slot configurations (including ADA compliant).

H Series - from Load Class A to Load Class C (25 tons).

HK Series - from Load Class A to Load Class E (60 tons).

SlabDrain Channels

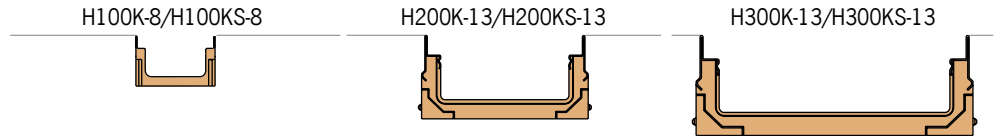


H Series

	H100-8 - 4" internal width			H100-10 - 4" internal width		
	Part No	Invert in ¹	Weight Lbs	Part No	Invert in ¹	Weight Lbs
Constant depth channel - 39.37" (1m)	00985	2.56	20.0	00549	3.25	25.0
Closing end cap	05935	-	1.0	05939	-	1.0
Debris strainer for 4" bottom KO	93488	-	0.2	93488	-	0.2
QuickLok™ locking bar	02899	-	0.1	02899	-	0.1
Grate removal tool	01318	-	0.3	01318	-	0.3

Notes:

- For overall channel depth add nominal 0.6" to invert depth.
- Select grates from page 5 - QuickLok H100 grates.

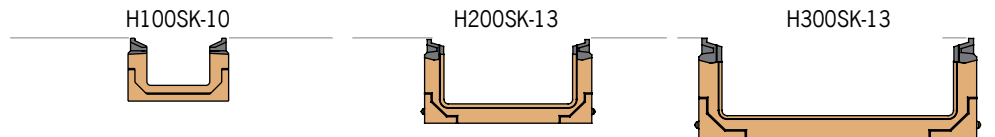


HK/HKS Series

	4" internal width				8" internal width				12" internal width			
	Part No	Invert in ¹	Weight Lbs		Part No	Invert in ²	Weight Lbs		Part No	Invert in ²	Weight Lbs	
	H100K-8	H100KS-8 ³			H200K-8	H200KS-8 ³			H300K-8	H300KS-8 ³		
Constant depth channel - 39.37" (1m)	95365	95373	2.56	16.0	93454	93455	3.94	57.4	93464	93465	3.94	71.6
Steel closing cap	98462	98471	-	1.0	93458	93459	-	1.0	93468	93469	-	1.4
Debris strainer for 4" bottom KO	93488		-	0.2	93488		-	0.2	-		-	-
QuickLok™ locking bar	02899		-	0.1	10457		-	0.5	10458		-	0.7
Grate removal tool	01318		-	0.3	01318		-	0.3	01318		-	0.3

Notes:

- H100K-8 overall channel depth add nominal 0.6" to invert depth; H200K-13/H300K-13 overall channel depth add nominal 1.2" to invert depth.
- Select grates from pages 5-7 in appropriate width - QuickLok or DrainLok grates.
- H100KS-8/H200KS-13/H300KS-13 have Grade 304 stainless steel rails and closing cap.



HSK Series

	H100SK - 4" internal width			H200SK - 8" internal width			H300SK - 12" internal width		
	Part No	Invert in ¹	Weight Lbs	Part No	Invert in ¹	Weight Lbs	Part No	Invert in ¹	Weight Lbs
Constant depth channel - 39.37" (1m)	93412	2.83	43.5	63456	3.94	66.4	63466	3.94	82.2
Steel closing cap	93410	-	1.0	93460	-	1.0	93470	-	1.4
Debris strainer for 4" bottom KO	93488	-	0.2	93488	-	0.2	-	-	-
Grate removal tool	01318	-	0.3	01318	-	0.3	01318	-	0.3

Notes:

- For overall channel depth; H100SK-10 add nominal 1.0" to invert depth; H200SK-13/H300SK-13 overall channel depth add nominal 1.2" to invert depth.
- Select grates from page 7 in appropriate width - PowerLok/4-bolt grates.

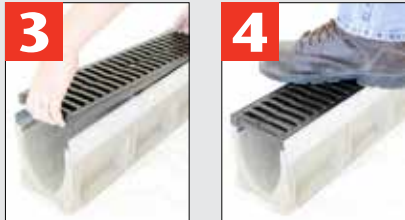
H & HK QuickLok™ Grates

Comprised of either a glass nylon stud or steel pin fitted to grate and a removable QuickLok™ bar in channel, QuickLok™ locks grate to channel by aligning stud over locking bar and applying pressure until they snap together. With no loose bolts or bars, QuickLok™ provides a highly secure boltless lock that is still easy to take apart for maintenance and cleaning. This saves time and money during installation.



Fit locking bar

Locate locking bar in channel wall recesses by rotating clockwise. Use hammer to tap bar into place, so that serrated ends grip in recess.



Fit grate

To install grate, align QuickLok™ stud directly over locking bar. Push down or stand on grate until it clicks into position.



Grate removal

To remove first grate, insert grate removal tool into slots at end of grate, pull up sharply. Remove remaining grates by hand.

To remove bar, insert screwdriver into hole at end of bar and lever back serrated end; rotate bar free.

H100/H100K QuickLok™ grates

LOAD CLASS C - EN 1433 - 56,000lbs - 1,162psi

		Length mm	Part No	Wgt lbs					
	Type 481Q Iron decorative	500	97120	9.0	✓	✗	✗	✓	38.8
	Type 479Q Iron mosaic	500	97116	10.0	✓	✗	✗	✓	24.6

LOAD CLASS E - EN 1433 - 135,000lbs - 2,788psi

	Type 461Q Iron slotted	500	96752	10.2	✗	✗	✗	✓	31.1
	Type 435Q Galv slotted	1000	31550	13.7	✗	✗	✗	✓	27.4
	Type 436Q Galv slotted	500	31551	6.8	✗	✗	✗	✓	27.4
	Type 490Q S/S slotted*	1000	31650	13.7	✗	✗	✗	✓	29.9
	Type 493Q S/S slotted*	500	31651	6.8	✗	✗	✗	✓	29.9
	Type 478Q Iron longitudinal	500	03314	12.8	✓	✓	✗	✓	25.8

H200K QuickLok™ grates

LOAD CLASS C - EN 1433 - 56,000lbs - 967psi

	Type 605Q Galv mesh	1000	10352	31.7	✗	✗	✗	✓	52.1
	Type 606Q Galv mesh	500	10353	16.1	✗	✗	✗	✓	52.1
	Type 630Q S/S mesh*	1000	16032	31.7	✗	✗	✗	✓	41.3
	Type 631Q S/S mesh*	500	16033	16.1	✗	✗	✗	✓	41.3
	Type 681Q Iron decorative	500	93956	27.0	✓	✗	✗	✓	38.8
	Type 679Q Iron mosaic	500	93957	34.0	✓	✗	✗	✓	24.6

LOAD CLASS E - EN 1433 - 135,000lbs - 2,321psi

	Type 678Q Iron longitudinal	500	138129	26.0	✓	✓	✓	✓	25.8
	Type 661Q Iron slotted	500	10351	37.0	✗	✗	✗	✗	59.9

H300K QuickLok™ grates

LOAD CLASS C - EN 1433 - 56,000lbs - 967psi

	Type 881Q Iron decorative	500	93950	47.0	✓	✗	✗	✓	38.8
	Type 879Q Iron mosaic	500	93958	47.3	✓	✗	✗	✓	24.6

LOAD CLASS E - EN 1433 - 135,000lbs - 2,321psi

	Type 878Q Iron longitudinal	500	138130	52.9	✓	✓	✓	✓	25.8
	Type 861Q Iron slotted	500	10431	56.0	✗	✗	✗	✓	50.8

* Grade 304 stainless steel.

HK DrainLok™ Grates

DrainLok™ removes the need for bolts and bars, improving channel hydraulics. The DrainLok™ mechanism simply clips into channel edge rail for rapid installation. ACO DrainLok™ grates are fitted with an *anti-shunt* mechanism that restricts unwanted grate movement, improving system durability and longevity.



1



Position grate

Position grate onto channel and align anti-shunt detail with recess in rail.

2



Lock grate

Push down or stand on grate until it clicks into position.

3



Grate removal

To remove first grate, insert grate removal tool into slots at end of grate, pull up sharply. Remaining grates can be removed by hand.

H100K DrainLok™ grates

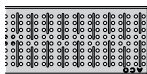
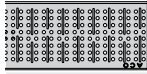
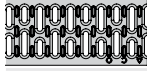
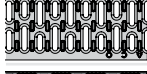
Length
mm

Part
No

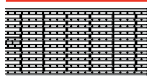
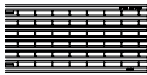
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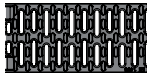
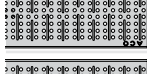
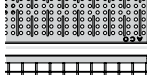
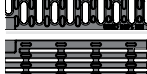
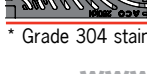
LOAD CLASS A - EN 1433 - 3,500lbs - 70psi

	Type 410D Galv perforated Type 412D Galv perforated	1000 500	12666 12667	6.3 3.2	✓	✓	✓	✓	22.6
	Type 451D S/S perforated* Type 453D S/S perforated*	1000 500	12664 12665	6.3 3.2	✓	✓	✓	✓	29.6
	Type 420D Galv slotted Type 421D Galv slotted	1000 500	12610 12611	5.9 3.0	✗	✗	✗	✓	27.4
	Type 450D S/S slotted* Type 452D S/S slotted*	1000 500	12640 12641	5.9 3.0	✗	✗	✗	✓	29.9
	Type 494D Black plastic longitudinal	500	99575	1.8	✓	✗	✗	✓	52.5
	Type 495D Gray plastic longitudinal	500	99576	1.8	✓	✗	✗	✓	52.5
	Type 496D Tan plastic longitudinal	500	99577	1.8	✓	✗	✗	✓	52.5

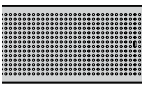
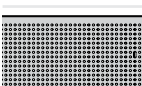
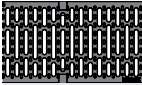
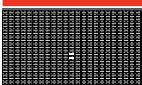
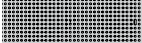
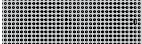
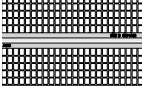
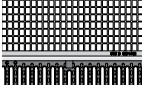
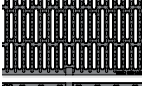
LOAD CLASS B - EN 1433 - 28,000lbs - 581psi

	Type 447D S/S longitudinal Type 448D S/S longitudinal	1000 500	142215 142216	8.0 4.0	✓	✓	✓	✓	51.3
	Type 438D Galv longitudinal Type 437D Galv longitudinal	1000 500	132555 132550	10.0 4.2	✓	✓	✗	✓	42.3

LOAD CLASS C - EN 1433 - 56,000lbs - 1,162psi

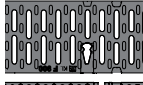
	Type 492D Black composite slotted	500	132720	2.2	✗	✓	✗	✓	86.4
	Type 497D Gray composite slotted	500	132266	2.2	✗	✓	✗	✓	35.6
	Type 498D Tan composite slotted	500	132712	2.2	✗	✓	✗	✓	35.6
	Type 425D Galv slotted Type 426D Galv slotted	1000 500	12614 12615	8.8 4.4	✗	✗	✗	✓	27.4
	Type 455D S/S slotted* Type 457D S/S slotted*	1000 500	12644 12645	8.8 4.4	✗	✗	✗	✓	29.9
	Type 411D Galv perforated Type 413D Galv perforated	1000 500	12656 12657	11.3 5.7	✓	✓	✓	✓	22.6
	Type 465D S/S perforated* Type 466D S/S perforated*	1000 500	12654 12655	11.3 5.7	✓	✓	✓	✓	29.6
	Type 405D Galv mesh Type 406D Galv mesh	1000 500	132880 132881	7.8 3.9	✓	✗	✗	✓	52.1
	Type 430D S/S mesh Type 431D S/S mesh	1000 500	132882 132883	7.8 3.9	✓	✗	✗	✓	41.3
	Type 460D Iron slotted	500	12670	10.1	✗	✗	✗	✓	35.6
	Type 476D Iron longitudinal	500	142171	7.0	✓	✓	✓	✓	25.8
	Type 480D Iron wave	500	99578	8.0	✓	✓	✗	✓	26.6

* Grade 304 stainless steel.

H200K DrainLok™ grates		Length mm	Part No	Wgt lbs					
LOAD CLASS B - EN 1433 - 28,000lbs - 483psi									
	Type 647D S/S longitudinal*	1000	142219	17.7	✓	✓	✓	✓	51.3
	Type 648D S/S longitudinal*	500	142220	9.0	✓	✓	✓	✓	51.3
LOAD CLASS C - EN 1433 - 56,000lbs - 967psi									
	Type 611D Galv perforated	1000	138080	21.0	✓	✓	✓	✓	22.6
	Type 613D Galv perforated	500	138081	10.5	✓	✓	✓	✓	22.6
	Type 665D S/S perforated*	1000	138082	21.0	✓	✓	✓	✓	29.6
	Type 666D S/S perforated*	500	138083	10.5	✓	✓	✓	✓	29.6
	Type 660D Iron slotted	500	142177	18.0	✗	✗	✗	✓	21.4
	Type 676D Iron longitudinal	500	142173	18.0	✓	✓	✓	✓	25.8
	Type 680D Iron wave	500	99579	28.0	✓	✓	✗	✓	26.6
H300K DrainLok™ grates		Length mm	Part No	Wgt lbs					
LOAD CLASS A - EN 1433 - 3,500lbs - 58psi									
	Type 847D S/S longitudinal*	1000	142223	28.6	✓	✓	✓	✓	51.3
	Type 848D S/S longitudinal*	500	142224	14.5	✓	✓	✓	✓	51.3
LOAD CLASS B - EN 1433 - 28,000lbs - 483psi									
	Type 811D Galv perforated	1000	138090	30.9	✓	✓	✓	✓	22.6
	Type 813D Galv perforated	500	138091	15.0	✓	✓	✓	✓	22.6
	Type 865D S/S perforated	1000	138092	30.9	✓	✓	✓	✓	29.6
	Type 866D S/S perforated	500	138093	15.0	✓	✓	✓	✓	29.6
LOAD CLASS C - EN 1433 - 56,000lbs - 967psi									
	Type 805D Galv mesh	500	13819	29.5	✗	✗	✗	✓	52.1
	Type 830D S/S mesh*	500	13849	29.5	✗	✗	✗	✓	41.3
	Type 860D Iron slotted	500	13870	38.0	✗	✗	✗	✓	31.5
	Type 876D Iron longitudinal	500	99588	35.0	✓	✓	✓	✓	25.8
	Type 880D Iron wave	500	99581	48.0	✓	✓	✗	✓	26.6

* Grade 304 stainless steel.

KeyASME A112.6.3 - 2001 Heel
resistant slots less than 0.31" (8mm)Compliant with Americans with Disabilities
Act of 1990 Section 4.5.4Bicycle Safe to Australian
Standard AS 3996 - 2006Anti-slip grates - Pendulum test BPN
value over 24**HSK PowerLok & 4-Bolt Grates****Lock grate**To close, place hook part of tool
into 'V' and push towards rail.**Grate removal**To open, insert tool between rail
and clip. Rotate tool 90°; device
should push away from rail.

H100SK grates		Length mm	Part No	Wgt lbs					
LOAD CLASS F - EN 1433 - 200,000lbs - 4,182psi									
	Iron longitudinal	500	96096	13.6	✓	✗	✓	✓	28.1
	Iron slotted	500	96082	12.3	✗	✗	✓	✓	35.6
	4-Bolt Iron slotted*	500	99590	10.8	✗	✗	✓	✓	35.6

* Supplied with 4 qty M10 bolts.

H200SK grates		Length mm	Part No	Wgt lbs					
LOAD CLASS E - EN 1433 - 135,000lbs - 2,321psi									
	Iron longitudinal	500	72263	26.4	✓	✗	✓	✓	55.6
LOAD CLASS F - EN 1433 - 200,000lbs - 3,485psi									
	Iron slotted	500	02449	30.8	✗	✗	✓	✓	21.4
	4-Bolt Iron slotted*	500	99591	26.4	✗	✗	✓	✓	21.4

* Supplied with 4 qty M10 bolts.

H300SK grates		Length mm	Part No	Wgt lbs					
LOAD CLASS E - EN 1433 - 135,000lbs - 2,321psi									
	Iron longitudinal	500	96833	64.0	✓	✓	✓	✓	48.9
LOAD CLASS F - EN 1433 - 200,000lbs - 3,481psi									
	Iron slotted	500	02445	50.0	✗	✗	✓	✓	31.5
	4-Bolt Iron slotted*	500	99592	50.2	✗	✗	✓	✓	31.5

* Supplied with 4 qty M10 bolts.



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the future of drainage**



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